Objectives

- Why program established- goals, evolution
- Today's toxics monitoring
- How data are used
- What can we learn about monitoring from inter-site variation and trends
 - Lessons/Issues

Regional monitoring can be a reasonable and cost effective means of assessing exposure of motor vehicle and similarly prevalent pollutants

Regional monitoring has supported identification and adoption of control measures of motor vehicles, fuels, point, and area sources (e.g. CBG, perchloroethylene and hexavalent chromium)

Regional monitoring adequately addressed changes in air quality levels due to fuel switching and other motor vehicle controls

Regional monitoring can also detect well-mixed cumulative emissions of many small sources.

? Regional monitors capture one aspect of point source monitoring, yet may overlook sub-regional populations exposed to high risk pollutants, and overlook the need for additional source controls.

A dense air monitoring network in a region can provide useful information on exposure due to neighborhood point sources.

There will be trade offs between regional and neighborhood monitoring resources. Sampling frequency, number of sites, and duration need to be carefully balanced to achieve objectives of both.

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? Neighborhood monitoring provides a distinct view of disproportionate risk that often exceeds that expressed by regional monitors.



? Neighborhood monitoring is particularly effective when sources are clustered and pollutants are high risk compounds.

Neighborhood monitoring is dynamic. Interest is often greater, objectives likely to evolve.

Point source monitoring will be comprehensive and time consuming, e.g. number of sites and number of samplers, changing objectives, dealing with community, etc.





? Neighborhood modeling places greater demand on need for local facility-by-facility emissions information.



Neighborhood monitoring should have a point of instigation, i.e. a community concern. A source category or cumulative impact of sources in neighborhood must be identified.

? Local findings from neighborhood monitoring projects need to be leveraged to a larger result to help justify cost incumbent in this type of effort.

? Findings from neighborhood monitoring are transferable and can benefit other communities with similar problems.



? Neighborhood monitoring will be the basis for strengthening emissions controls from point sources.